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10/777,063	02/13/2004	Youji Notoya	2004_0215A	5638
52349 7590 01/03/2011 WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East Washington, DC 20005-1503			EXAMINER	
			ANYIKIRE, CHIKAODILI E	
			ART UNIT	PAPER NUMBER
			2482	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/777,063	NOTOYA ET AL.
Office Action Summary	Examiner	Art Unit
	CHIKAODILI E. ANYIKIRE	2482
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>20 Octoor</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 8,11,13,15 and 18-22 is/are pending i 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 8, 11, 13, 15, and 18-22 is/are rejecte 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. d.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 13 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examine 11.	e: a) accepted or b) objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies 	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) \(\overline{\text{N}} \) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

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DETAILED ACTION

1. This application is responsive to application number (10777063) filed on February 13, 2004. Claims 8, 11, 13, 15, and 18-22 are pending and have been examined.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 8, 13, and 15 rejected under 35 U.S.C. 102(e) as being anticipated by Hannuskela (US 2004/0218816).

As per claim 8, Hannuksela discloses a moving picture decoding method for decoding, on a picture-by-picture basis, a coded stream comprising: coded picture data for each picture included in the coded stream; display order information for each picture included in the coded stream, where the display order information for each picture is a picture order count (POC) and has a value indicating the display order of the respective pictures; and a flag inserted into the coded stream so as to indicate a position among the coded picture data where the values of the display order information of the pictures in the code stream are sequential or non-sequential, where being sequential is being incremental by one and being non-sequential is a state other than being incremental by one, the flag being stored in the coded stream or in random access point information in a file system to convey the coded stream, the method comprising:

an information extraction step of extracting the flag indicating a position among the coded picture data where the values of the display order information are nonsequential (paragraphs [0067] - [0077]); and

a management step of managing a storage memory area for storing a decoded picture based on the flag (paragraph [0077]), wherein

in the management step, clip information is given to the decoded picture stored in the storage memory area, said clip information being updated when the flag is extracted, and a picture whose position is earliest in a display order among the decoded pictures stored in the storage memory area is determined as a picture to be removed, based on the display order information and the clip information (paragraph [0066]-[0070]).

Regarding **claim 13**, arguments analogous to those presented for claim 8 are applicable for claim 13.

Regarding claim 15, arguments analogous to those presented for claim 8 are applicable for claim 15.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US 6,148,140, hereafter Okada) in view of Hannuksela (US 2004/0218816).

As per **claim 18**, Okada discloses a moving picture coding method for coding an inputted original coded moving picture signal on a picture-by-picture basis and generating a coded stream,

wherein the inputted coded moving picture signal includes coded picture data for each picture, and display order information for each picture, and the display order

information for each picture is a picture order count (POC) has a value indicating the display order of the respective pictures, the method comprising:

a detecting step of detecting whether the values of the display order information for the pictures to be included in the generated coded stream are sequential or non-sequential, where being sequential is being incremental by one and being non-sequential is a state other than being incremented by one; (column 45 lines 19-48);

a flag information generation step of generating a flag information indicating that the values of the display order information are non-sequential when said detecting step detects that the values of display order information values for the pictures to be included in the generated coded stream are non-sequential; (column 26 lines 46-64); and

a coded stream generating step of generating a coded stream comprising: the coded picture data for each picture to be included in the generated coded stream; and the flag inserted into the coded stream so as to indicate a position among the coded picture data where the display order of the pictures is non-sequential (column 24 lines 55-64 and column 45 lines 19-48); and

the flag is stored in the coded stream or the flag is stored in random access point information in a file system to convey the coded stream (column 26 lines 1 – 15; Okada teaches that the flag relating to the seamless linking information is stored in the coded stream and part of the management file system), wherein in coded stream generating step, the flag is inserted between two pictures in the generated coded stream, said two pictures being non-sequential in display order (column 26 lines 56-64).

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However, Okada does not explicitly teach the values of the display order information for the pictures to be included in the generated coded stream are sequential or non-sequential, where being sequential is being incremental by one and being non-sequential is a state other than being incremental by one.

In the same field of endeavor, Hannuksela teaches the values of the display order information for the pictures to be included in the generated coded stream are sequential or non-sequential, where being sequential is being incremental by one and being non-sequential is a state other than being incremental by one (paragraphs [0067] – [0077]).

Therefore, it would have been obvious for one having skill in the art at the time of the invention to modify the invention of Okada in view of Hannuksela. The advantage is the detection of scene changes .

As per **claim 19**, Okada discloses the moving picture coding method according to claim 18,

wherein in the coded stream generating step, the coded stream is generated such that a display order of pictures in the predetermined coding unit is sequential, and such that the display order of the pictures in said predetermined coding unit is located earlier than a display order of pictures in a predetermined coding unit immediately following said predetermined coding unit (column 26 lines 56-64).

Regarding **claim 20**, arguments analogous to those presented for claim 18 are applicable for claim 20.

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As per **claim 22**, Okada discloses the moving picture coding method according to claim 18, wherein the flag is stored in supplemental enhancement information (SEI) for storing additional information, the SEI being located between clips in the generated coded stream (column 26 lines 1 - 15, Okada discloses the management file information

6. Claim 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hannuksela (US 2004/0218816) in view of Teo et al (US 5,621,464).

relating to the flag and is used as enhancement information).

As per **claim 11**, Hannuksela discloses the moving picture decoding method according to claim 8, further comprising an invalid picture storage step of storing an invalid picture in the area when values indicated by display order information of the pictures are in non-sequential (paragraph [0066]-[0077]),

in the management step, whether or not to store an invalid picture in the area is determined based on the flag information and the coding order information (paragraph [0067]-[0077])), and

in the invalid picture storage step, an invalid picture is stored in the area based on a result of the determination made in the management step (paragraph [0077]).

However, Hannuksela does not explicitly teach wherein the flag indicates that the values indicated by the coding order information are in non-sequential order.

In the same field of endeavor, Teo et al discloses wherein the flag information indicates that the values indicated by the coding order information are in non-sequential order (Col 1 Ln 29-40).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the image coder of Boon et al with the method of Teo et al. It is well known knowledge that with motion prediction specifically B-pictures that the picture order becomes non-sequential. The advantage would be that it notifies the image coding system to correct the picture order sequence.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHIKAODILI E. ANYIKIRE whose telephone number is (571)270-1445. The examiner can normally be reached on Monday to Friday, 7:30 am to 5 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272 - 7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Marsha D. Banks-Harold/ Supervisory Patent Examiner, Art Unit 2482

/Chikaodili E Anyikire/ Examiner, Art Unit 2482